

Listing of Claims:

1. (Currently amended) A data transmission method of a radio link system between a central station (101) and at least one substation (102), ~~characterized in that~~ comprising the steps of:

~~[[-]] transmitting the central station transmits~~ a time division multiplex signal at a first frequency from the central station[[,]]; and

~~[[-]] receiving at the central station receives~~ signals of said at least one substation at a second frequency, said second frequency being a different frequency than said first frequency and said signals of said at least one substation at said second frequency forming a time division multiple access signal[[,]]; and

~~[[-]] wherein each of said at least one substation receives, within an initial time period having time slots, substantially at said first frequency during certain first time periods having one or more time slots and corresponding to [the] a specific substation~~ [[in question,]]; and

~~[[-]] each of wherein said at least one specific substation transmits, within said initial time period, substantially at said second frequency during certain second time periods having one or more time slots corresponding to said the specific substation in question, whereby such that said first time periods are different time periods than said second time periods.~~

2. (Currently amended) A The data transmission method of ~~according to~~ claim 1, ~~characterized in that~~ wherein the central station controls the time periods used for transmission and reception by the substations.

3. (Currently amended) A radio link system, comprising:

a central station (101) comprising means for discriminating reception signals from transmission signals on a basis of frequency; and

at least one substation; (102)[[,]] ~~characterized in that~~

~~the central station comprises means for discriminating reception signals from transmission signals on the basis of frequency, and in that~~

wherein the central station is ~~arranged~~ configured so as to transmit a time division multiplex signal at a first frequency and receive a time division multiple access signal at a second frequency~~[[,]]; and~~

wherein ~~and in that~~ the at least one substation is ~~arranged~~ configured so as to receive, within an initial time period constituted of time slots, substantially at said first frequency during certain first time periods having one or more time slots and corresponding to ~~the a specific substation in question~~ and said specific substation is arranged to transmit, within said initial time period, substantially at said second frequency during certain second time periods having one or more time slots and corresponding to said specific ~~the substation in question~~, ~~whereby such that~~ said first and second time periods are different time periods and signals transmitted by said at least one substation at said second frequency are arranged to form said time division multiple access signal.

4. (Currently amended) A The radio link system ~~according to~~ of claim 3, ~~characterized in that~~ wherein the central station is ~~adapted so as~~ configured to select said first and second time periods.

5. (Currently amended) A The radio link system ~~according to~~ of claim 3, ~~characterized in that it~~ wherein the system is located in a GSM mobile communication system.

6. (Currently amended) A The radio link system ~~according to~~ of claim 3, ~~characterized in that it~~ wherein the system is located in a UMTS mobile communication system.

7. (Currently amended) A The radio link system ~~according to~~ of claim 3, ~~characterized in that it~~ wherein the system is located in a broadband data transmission system.

8. (Currently amended) A The radio link system ~~according to~~ of claim 7, ~~characterized in that it~~ wherein the system is located in a LMDS system.

9. (Currently amended) A The radio link system ~~according to~~ of claim 7, ~~characterized in~~
~~that it~~ wherein the system is located in a HiperAccess system.